

Quarterly Groundwater Sampling Results
November 8-10, 1999
Precision National Plating Services - Clarks Summit, PA

Analyte (µg/l)	PA Statewide Health Standard	AGM-1S 11/09/99 8:57	AGM-1I 11/09/99 8:37	AGM-2S 11/09/99 16:31	AGM-2I 11/09/99 16:49	AGM-3S 11/10/99 9:49	AGM-3S-DUP 11/10/99 9:49	AGM-3I 11/10/99 10:00	AGM-4S 11/10/99 8:10	AGM-4I 11/10/99 8:26
Aluminum	200	730	10.8 U	32.4 U	10.8 U	44.3 U	48.3 U	11.4 U	50.3 U	10.8 U
Antimony	6	3.6 U	3.6 U	3.6 U	3.6 U	8.6 U	10.9 U	3.6 U	25.4 U	3.6 U
Arsenic	50	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	5.1 J	2.6 U
Barium	2,000	81.1 U	4,990	288 U	936 U	184 U	183 U	1,530 U	87.4 U	248 U
Beryllium	4	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Cadmium	5	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Calcium	--	71,800	70,100	62,800	32,500	70,400	69,700	47,700	47,000	67,900
Chromium	100 (1)	88.8 U	1.6 U	4.0 U	0.9 U	507 U	510 U	0.9 U	1,190	0.9 U
Cobalt	--	1.5 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Copper	1,000	3.5 U	1.9 U	1.2 U	1.2 U	4.1 U	3.0 U	4.9 U	3.1 U	1.5 U
Hexavalent Chromium	180	10 U	10 U	10 U	10 U	540 J	500 J	10 U	1,200 J	10 U
Iron	300	1,210 U	3,730	74.5 U	1,830	69.2 U	73.9 U	2,320	75.0 U	3,310
Lead	5	3.2	2.8 J	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	3.1
Magnesium	--	8,300	7,270	9,180	4,340 J	10,200	10,300	6,040	5,720	10,200
Manganese	50	59.3 U	214 U	152 U	160 U	6.6 U	7.2 U	240 U	5.6 U	609 U
Mercury	2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	61.0	1.6 U	3.4 U	1.4 U	3.6 U	3.6 U	3.2 U	4.0 U	1.5 U
Potassium	--	1,390 J	6,790	1,900 J	3,930 J	2,120 J	2,130 J	5,650	1,810 J	899 J
Selenium	50	2.3 J	1.9 U	1.9 U J	1.9 U J	1.9 U J	1.9 U J	1.9 U J	1.9 U	1.9 U J
Silver	100	2.1 U	2.1 U	2.1 U	2.1 U	3.3 J	3.1 J	2.1 U	6.0 J	2.1 U
Sodium	--	11,500	18,700	13,500	24,200	15,800	15,900	18,600	7,190	12,900
Thallium	2	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
Vanadium	2.1	1.3 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Zinc	2,000	87.0 U	40.3 U	22.8 U	18.2 U	62.4 U	58.1 U	23.5 U	30.3 U	32.6 U

Notes: All concentrations in ug/l (ppb)

(1) 100 ug/L is the State-wide Health Standard for Chromium (III) and the Federal MCL for total Chromium in groundwater

U = The analyte was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte sample.

UJ = The analyte was not detected above the reported sample quantitation or detection limit. However, the reported quantitation or detection limit is approximate and may or may not represent the actual limit of quantitation or detection necessary to accurately and precisely measure the analyte in the sample.

R = The sample results are rejected because of serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence or absence of the analyte cannot be verified.

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Analyte (µg/l)	PA Statewide Health Standard	AGM-5S 11/09/99 15:15	AGM-5I 11/09/99 14:59	AGM-6S 11/08/1999 14:51	AGM-6I 11/08/1999 15:18	AGM-6D 11/08/1999 14:00	AGM-7S 11/08/1999 16:48	AGM-7I 11/08/1999 16:35	MW-1 11/09/99 12:40	MW-2 11/09/99 12:50
Aluminum	200	17.5 U	10.8 U	101 U	21.8 U	10.8 U	12.2 U	10.8 U	10.8 U	10.9 U
Antimony	6	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
Arsenic	50	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Barium	2,000	146 U	202 U	53.9 U	111 U	1,650 U	51.5 U	16.2 U	92.7 U	116 U
Beryllium	4	0.1 U	0.1 U	0.1 U	0.1 U	0.92 J	0.1 U	0.1 U	0.1 U	0.1 U
Cadmium	5	0.4 U	0.4 U	0.4 U	0.4 U	0.75 U	0.4 U	0.4 U	0.4 U	0.4 U
Calcium	--	28,200	23,300	36,900	55,500	37,000	69,600	46,500	66,900	60,000
Chromium	100 (1)	66.1 U	0.9 U	5.6 U	3.0 U	0.9 U	0.9 U	7.3 U	0.9 U	14.4 U
Cobalt	--	1.6 J	1.1 U	1.1 U	1.1 U	1.3 J	1.1 U	1.1 U	1.1 U	1.1 U
Copper	1,000	1.2 U	1.2 U	1.9 U	1.2 U	4.3 U	1.2 U	1.5 U	1.2 U	1.2 U
Hexavalent Chromium	180	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Iron	300	7,050	6,270	156 U	89.0 U	160 U	378 U	45.4 U	10,200	5,490
Lead	5	3.3	5.9	2.5 U	2.5 U	4.7	4.1	6.7	2.5 U	3.1
Magnesium	--	2,420 J	6,210	4,160 J	6,690	4,760 J	7130	5,680	3,240 J	7,380
Manganese	50	3,340 U	204 U	15.1 U	229 U	139 U	688 U	4.8 U	342 U	398 U
Mercury	2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	2.1 U	1.3 U	4.8 U	3.1 U	1.4 U	1.3 U	1.3 U	2.9 U	4.3 U
Potassium	--	1,240 J	3,000 J	3,000 J	2,560 J	4,610 J	1,380 J	980 J	3,460 J	8,590
Selenium	50	1.9 U J	1.9 U J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Silver	100	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Sodium	--	20,000	16,500	34,000	19,500	35,100	12,500	14,200	16,700	112,000
Thallium	2	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
Vanadium	2.1	1.1 U	1.1 U	1.1 U	1.1 U	1.4 J	1.1 U	1.1 U	1.1 U	1.1 U
Zinc	2,000	64.6 U	54.1 U	139 U	68.3 U	75.7 U	82.5 U	62.8 U	55.8 U	79.7 U

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Analyte (µg/l)	PA Statewide Health Standard	MW-3 11/09/99 15:52	MW-4 11/10/99 11:50	MW-A 11/10/99 16:53	MW-B 11/10/99 14:42	MW-C 11/09/99 11:15
Aluminum	200	36.0 U	332 U	18.6 U	68.5 U	27.2 U
Antimony	6	49.5 J	46.7 B	170	17.5 U	3.6 U
Arsenic	50	2.6 U	2.6 U	3.1 J	2.6 U	2.6 U
Barium	2,000	25.9 U	319 U	45.9 U	183 U	23.1 U
Beryllium	4	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Cadmium	5	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Calcium	--	36,000	67,400	34,600	69,000	35,400
Chromium	100 (1)	2,360	2,310	8,240	732 U	7.5 U
Cobalt	--	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Copper	1,000	1.2 U	5.1 U	3.3 U	2.6 U	1.2 U
Hexavalent Chromium	180	2,700 J	2,500 J	9,000 J	760 J	10 U
Iron	300	636 U	643 U	73.6 U	98.0 U	86.9 U
Lead	5	2.5 U	9.8	2.5 U	2.5 U	2.5 U
Magnesium	--	3,550 J	9,880	2,890 J	10,300	3,850 J
Manganese	50	17.8 U	425 U	86.1 U	6.8 U	14.9 U
Mercury	2	0.2 U	4.5 U	0.2 U	0.2 U	0.2 U
Nickel	100	5.7 U	13.7 U	7.0 U	7.2 U	7.6 U
Potassium	--	871 J	1,950 J	1310 J	1,210 J	662 J
Selenium	50	1.9 U J	1.9 U	1.9 U	1.9 U	1.9 U
Silver	100	12.5	12.2	41.5	4.7 J	2.1 U
Sodium	--	4,440 J	15,900	24,200	20,600	2,650 U
Thallium	2	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
Vanadium	2.1	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U
Zinc	2,000	18.8 U	62.9 U	105 U	56.8 U	77.8 U

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